CLAIM AMENDMENTS

1.-17. (Canceled)

18. (Currently Amended) A method comprising:

detecting the on/off state of ~~at least one~~ a light associated with a removable imaging unit of a microscope;

analyzing an image captured by ~~an~~ said imaging unit ~~associated with said microscope~~; and

setting the color balance of said imaging unit at least in part based on an analysis of said image, the on/off state of said light, and the nature of said light.

19. (Original) The method of claim 18 including detecting the presence of a filter on said microscope, and adjusting the color balance based on the presence of said filter.

20. (Original) The method of claim 18 including detecting the state of each of two lights, determining the nature of each of said lights and setting the color balance for said imaging unit.

21. (Currently Amended) The method of claim 18 including detecting the on/off state of ~~a first light associated with said imaging unit and~~ a second light associated with a base which removably supports said imaging unit.

22. (Withdrawn) An article comprising a medium storing instructions that enable a processor-based system to:

detect the on/off state of at least one light associated with a microscope;

analyze an image captured by an imaging unit associated with said microscope; and

set the color balance of said imaging unit at least in part based on an analysis of said image recorded by an imaging unit, the on/off state of said light, and the nature of said light.

23. (Withdrawn) The article of claim 22 further storing instructions that enable the processor-based system to detect the presence of a filter on said microscope and adjust the color balance based on the presence of said filter.

24. (Withdrawn) The article of claim 22 further storing instructions that enable the processor-based system to detect the state of each of two lights, determine the nature of each of said lights, and set the color balance for said imaging unit.

25. (Original) A microscope comprising:

a digital imaging sensor;

a first light associated with said imaging sensor;

a detector to detect the on or off state of said light;

an image analyzer to analyze an image captured by said imaging sensor; and

a device to set the color balance of said imaging sensor at least in part based on the analysis of said image, the on/off state of said light and the nature of said light.

26.-30. (Canceled)

31. (New) The microscope of claim 25 wherein said imaging sensor is removably associated a base of said microscope.

32. (New) The microscope of claim 31, further including a second light associated with said base and a detector to detect the on/off state of said second light.

33. (New) The microscope of claim 32 wherein said device sets the color balance of said imaging sensor at least in part based on the analysis of said image, the on/off state of said first or said second light, and the nature of said first or said second light.

34. (New) The method of claim 18 including comparing the exposure of two captured images.

35. (New) The method of claim 34 including generating a message to report poor lighting conditions based on said comparison.